Ben Huenemann   Curriculum Vitae

CONTACT INFORMATION	Graduate Teaching Assistant University of Nebraska-Lincoln Email: bhuenemann3@nebraska.edu Office: Avery 320

EDUCATION

Ph.D. Student in Mathematics, University of Nebraska, Lincoln — 2023 – Current
Advised by Alexandra Seceleanu
M.S. in Mathematics, University of Nebraska, Lincoln — 2023 - 2024
B.S. in Mathematics, University of Utah — 2019 - 2023
B.S. in Computer Science with Honors, University of Utah — 2019 - 2023

PUBLICATIONS

Comparison of atlas-based and neural-network-based semantic segmentation for DENSE MRI images with Emma Hart and Elle Buser.
SIAM Undergraduate Research Online, Vol. 15 (2022).

On χ-slice pretzel links with Sophia Fanelle, Evan Huang, Weizhe Shen, Jonathan Simone, and Hannah Turner. Submitted to appear in *Topology and its Applications*.

RESEARCH TALKS AND POSTERS

Buchsbaum-Eisenbud Theorem — July 2025
Commutative Algebra Reading Seminar, University of Nebraska-Lincoln

Adding an Integer Linear Programming solver to SweetPea — May 2023
Senior thesis research results, University of Utah

On χ-slice pretzel links — Oct 2022
Gulf Coast Undergraduate Research Symposium, Rice University

Applications of Donaldson's Diagonalization Theorem — July 2022
Georgia Tech REU Poster Session, Georgia Institute of Technology

Image-based diagnosis of Chiari Malformation — Feb 2022
Georgia Scientific Computing Symposium, Georgia Institute of Technology

Image-based diagnosis of Chiari Malformation — July 2021
Emory REU/RET Poster Session, Emory University

Dependency Slogger — April 2021
Undergraduate Research Symposium, University of Utah

TEACHING EXPERIENCE

Math 100A - Intermediate Algebra, Associate Convener, Instructor of Record — Fall 2025
Math 203 - Contemporary Mathematics, Instructor of Record — Spring 2025
Math 101 - College Algebra, Instructor of Record — Fall 2024
Math 106 - Calculus 1, Teaching Assistant — Spring 2024
Math 106 - Calculus 1, Teaching Assistant — Fall 2023

HONORS

Utah Flagship Scholarship — 2019 – 2023
Tom and Cathy Saxton Math Scholarship — 2022
David E. & Carol C. Salisbury Legacy Endowed Engineering Scholarship — 2022
Golden Math Scholarship — 2021
Paul G. & Alison R. Mayfield Engineering Undergraduate Scholarship — 2021
Calvin H. Wilcox Memorial Math Scholarship — 2020
Joseph Hyde Merrill Engineering Scholarship — 2020
College of Science Freshman Scholarship — 2019

CONFERENCES	*Summer Commutative Algebra Market Preparation workshop* in Lincoln, NE	Aug 2025
	Upcoming Researchers in Commutative Algebra (URiCA) in Lincoln, NE	May 2025
	Gulf Coast Undergraduate Research Symposium in Houston, TE	Oct 2022
	Georgia Scientific Computing Symposium in Atlanta, GA	Feb 2022
	Undergraduate Research Symposium in Salt Lake City, UT	April 2021